

Claims

1. A device for the transfer of heat away from a heat source comprising:

a base having first and second surfaces;

a plurality of fins extending from said second surface of said base;

said base further including a chamber disposed between said first surface and said second surface;

Said chamber further including a divider disposed within said chamber and adjacent said first surface;

a pump coupled to said base; and

a cooling fluid disposed within said chamber.

2. The device according to claim 1 further including a plurality of flow dividers extending from a first surface of said divider.

3. The device according to claim 1 characterized in that said fins are hollow and in fluid communication with said chamber.

4. The device according to claim 1 further characterized in that said pump circulates said fluid within said chamber.

Sub
C1
out

5. The device according to claim 2 wherein said plurality of flow dividers are disposed upon said first surface of said divider in a pattern that maximizes heat transfer from said fluid to said fins.

6. The device according to claim 1 characterized in that said pump is disposed within said chamber.

7. The device according to claim 1 characterized in that said pump is disposed adjacent said base, and said pump further includes a pump inlet and a pump outlet, said inlet coupled to said chamber adjacent said first surface and said outlet coupled to said chamber adjacent to said divider.

8. The device according to claim 1 wherein said cooling fluid is chosen from the group consisting of alcohol, antifreeze, propylene glycol, water.

9. The device according to claim 1 wherein said base and said fins are constructed of one of the following materials chosen from the group consisting of copper, aluminum, steel, plastic.

5 10. The device according to claim 1 further including a fan attached to said fins.

add